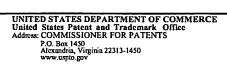


UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/750,601	12/28/2000	Sudheer Dharanikota	1285-0039US ALC-135759	6768	
75	7590 06/15/2004		EXAM	EXAMINER	
Craig A. Hoersten, Esq			SCHEIBEL, ROBERT C		
Intellectual Pro	perty Department			s, **	
Alcatel USA M/S LEGL2			ART UNIT	PAPER NUMBER	
1000 Coit Road			2666		
Plano, TX 75075			DATE MAILED: 06/15/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	4		
	Application No.	pplicant(s)	
	09/750,601	DHARANIKOTA, SUDHEER	
Office Action Summary	Examiner	Art Unit	
	Robert C. Scheibel	2666	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statt Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply within the statutory minimum of thirt id will apply and will expire SIX (6) MON ute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 28			
,	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	•	• •	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-30</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ⊠ Claim(s) <u>22-25</u> is/are allowed. 6) ⊠ Claim(s) <u>1,6-9,16-19,21 and 26</u> is/are rejected 7) ⊠ Claim(s) <u>2-5,10-15,20 and 27-30</u> is/are object 8) □ Claim(s) are subject to restriction and	ed.		
Application Papers			
9)⊠ The specification is objected to by the Examir			
10)☐ The drawing(s) filed on is/are: a)☐ ac			
Applicant may not request that any objection to th		, <i>,</i>	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the E	examiner. Note the attached	Oπice Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the prince application from the International Bure. * See the attached detailed Office action for a list. 	nts have been received. nts have been received in A fority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date <u>2</u>. 	_)/Mail Date formal Patent Application (PTO-152) 	

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DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities:
 - the phrase "packets pertains" on lines 19-20 of page 7 should be changed to "packets pertain".

Appropriate correction is required.

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

- 3. Claims 15 and 22 are objected to because of the following informalities:
 - the phrase "wherein said wherein said" on line 2 should be changed to "wherein said";
 - the phrase "an ingress portion a network processor system" should be changed to "an ingress portion of a network processor system".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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- 5. Claims **6-9, 16-19 and 21** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. Claims 6-9, 16-19, and 21 recite the limitation "the number of" in line 4 of each claim. There is insufficient antecedent basis for this limitation in the claim. This rejection can be overcome by changing the phrase to "a number of" in each instance.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims **1 and 26** are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,611,522 to Zheng et al.

Regarding claims 1 and 26, the ingress and egress terminating line cards are disclosed in the line cards 130-138 of Figure 9; each line card is operable as an ingress line card and is also operable as an egress line card. The switch fabric disposed between the line cards is disclosed in the interconnect 62 shown throughout the figures. The interconnect 62 supports a plurality of virtual ingress/egress pipes in that it provides connections between each of the plurality of line cards; each of these connections is a

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virtual pipe between ingress and egress cards. The limitation that the ingress and egress cards are provided with a plurality of buffer queues to support traffic flows associated with the VIEPs (see receive input queue 256 (also referred to as element 286 in the specification – see lines 29-31 of column 23) and queues 146 of figure 9 and queues 622 of figures 33-35). The policing structure is disclosed in the police function of element 142 on figure 9. The ingress flow controller (claim 1) and buffer acceptance and flow control module (claim 26) are disclosed in the classify function of element 142 and the interconnect prioritization element 148 of figure 9. The egress flow controller (claim 1) and buffer acceptance and flow control module (claim 26) are disclosed in the shape function of element 144 and the interconnect prioritization element 148 of figure 9. The scheduler (claim 1) and traffic shaping and scheduling module (claim 26) are disclosed in the scheduler 144 of figure 9.

Allowable Subject Matter

- 9. Claims **22-25** are allowable over the prior art of record.
- 10. The following is an examiner's statement of reasons for allowance:

The prior art of record discloses all the limitations of claim 22 except the propagation of the information from an ingress portion to an egress portion of a network processor system *through a switch fabric* and then performing QOS monitoring operations on the egress portion of the network processor system and further subsequently transmitting the processed information to another card (again through a switch fabric – as specified by the VIEPs in the claim language) for transmission out of

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the network element. The prior art of record does not transmit the information through the switch fabric until the QOS processing has been performed; thus the switch fabric is only utilized one time per packet in the prior art. As the prior art of record fails to disclose this double traversal of the switch fabric, claim 22 is allowable over the prior art of record. Further, as claims 23-25 depend on claim 22, they are also allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 11. Claims **2-5**, **10-15**, **20**, **and 27-30** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. Claims **6-9**, **16-19**, **and 21** would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 13. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record discloses all the limitations of claims 1 and 26 as described in the rejection under 35 U.S.C. 102 (e) above. The prior art of record also discloses the use of counters by either the policing or flow control functionality of a

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given network. However, the prior art of record fails to disclose the limitation that the scheduler, flow controller, and the policing structure all use (in concert) the same plurality of counters associated with said ingress and egress cards to provide Quality of Service (QoS) parametric information necessary to effectuate a Service Level Agreement between a network service provider operating said network element and a subscriber for services available in said IP network.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,574,195 to Roberts, U.S. Patent 6,657,962 to Barri et al, and U.S. Patent 6,608,816 to Nichols all disclose flow control and policing mechanisms similar to the instant application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert C. Scheibel whose telephone number is 703-305-9062. The examiner can normally be reached on 6:30-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao can be reached on 703-308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert C. Scheibel

Examiner Art Unit 2666

DANG TON PRIMARY EXAMINER